

Fig. 1

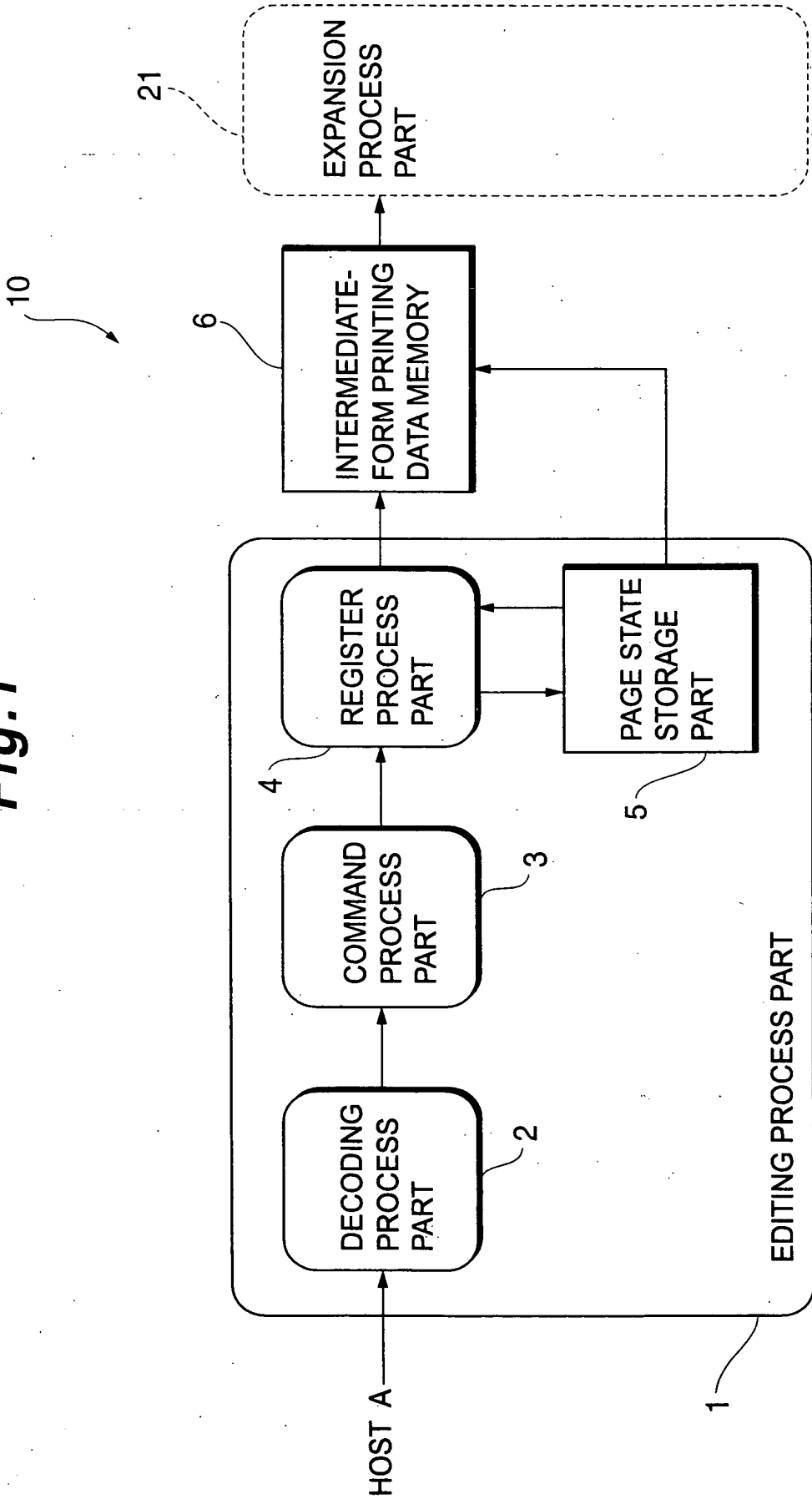


Fig.2

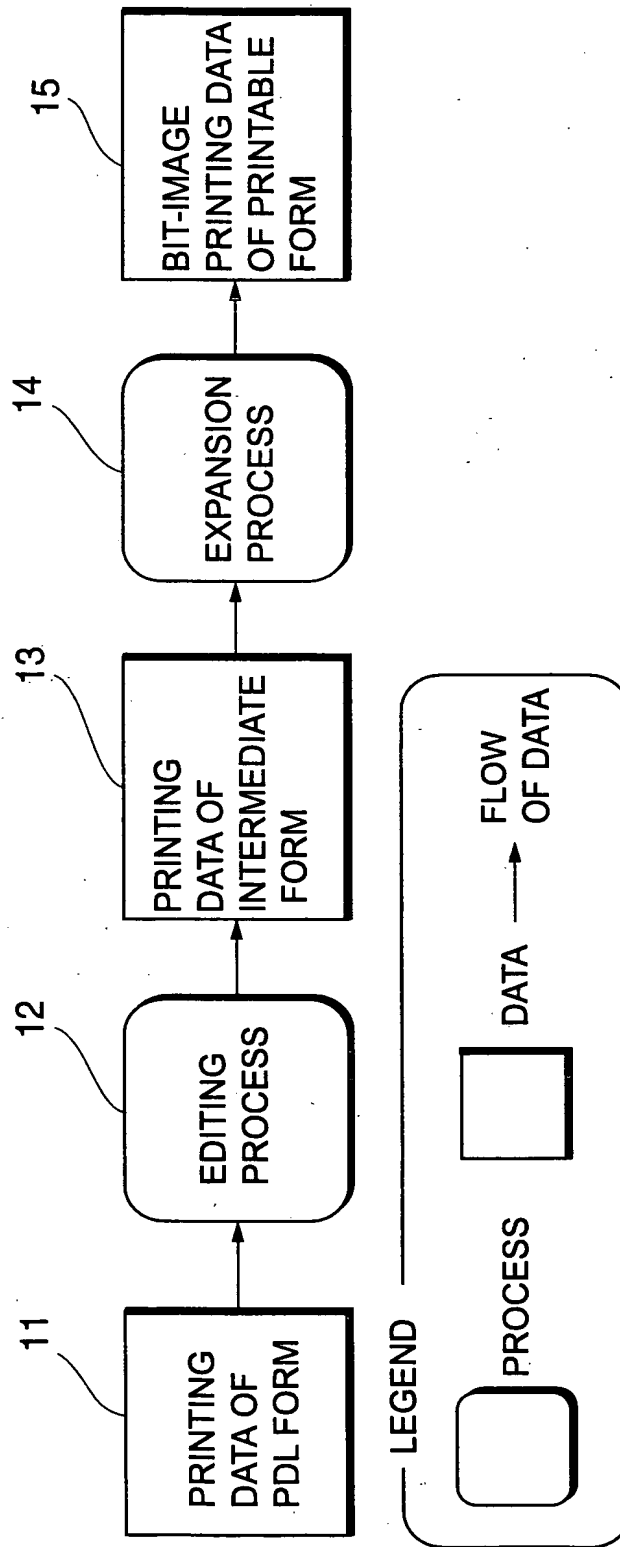


Fig.3

	BINARY(1BIT)	MULTI BINARY(8BITS)
MONOCHROME	1	8
COLOR(CMYK,4COLORS)	4	32

DIAGRAM FOR EXPLAINING BITS IN MONOCHROME AND COLOR(CMYK,4COLORS)PRINTING

Fig. 4(a)

CONDITIONS GIVING RISE TO STATE TRANSITION ACCORDING TO CHARACTERISTICS OF DATA

	CHARACTERISTICS	CONDITIONS FOR STATE TRANSITION
(1)	DATA SPECIFIES SHAPE ONLY	DATA INCLUDES NO INFORMATION ABOUT COLOR AND GRADATION, SO NO STATE TRANSITION OCCURS. STATE TRANSITION NEED NOT BE CHECKED.
(2)	DATA SPECIFIES COLOR ONLY.	IF COLOR IS SPECIFIED AS BLACK, COLOR INFORMATION IS NOT INCLUDED. SO, STATE TRANSITION NEED NOT OCCUR. IF COLOR COMPONENTS(E. G. CMY) ARE SAME, THAT IS, IF COLOR IS A GRAY TONE, STATE CHANGES TO MULTI BINALLY BUT NEED NOT CHANGE TO COLOR. IN OTHER CASES, STATE CHANGES TO COLOR MULTI BINARY.
(3)	DATA SPECIFIES COLOR AND SHAPE.	IF COLOR SPACE IS COLOR, STATE CHANGES TO COLOR, IF NUMBER OF BITS IS MORE THAN 1, STATE CHANGES TO COLOR MULTI BINARY.
(4)	DATA SPECIFIES NO COLOR NOR SHAPE.	IF NEITHER COLOR NOR SHAPE IS SPECIFIED, DATA INCLUDES NO INFORMATION ABOUT COLOR AND GRADATION, SO NO STATE TRANSITION OCCUR. STATE TRANSITION NEED NOT BE CHECKED.

Fig. 4(b)

COMPONENT	CHARACTERISTICS	REMARKS
DRAWING DATA	SPECIFIES SHAPE ONLY	CHARACTER, GRAPHIC FORM, ETC.
	SPECIFIES COLOR AND SHAPE	IMAGE ETC.
PATTERN	SPECIFIES COLOR ONLY	PEN COLOR, ETC.
	SPECIFIES SHAPE ONLY	TILING PATTERN, ETC.
	SPECIFIES COLOR AND SHAPE	TILING PATTERN, ETC.
EXPANSION RULE	NO COLOR, NO SHAPE	

DIAGRAM FOR EXPLAINING PAGE STATE

Fig.5

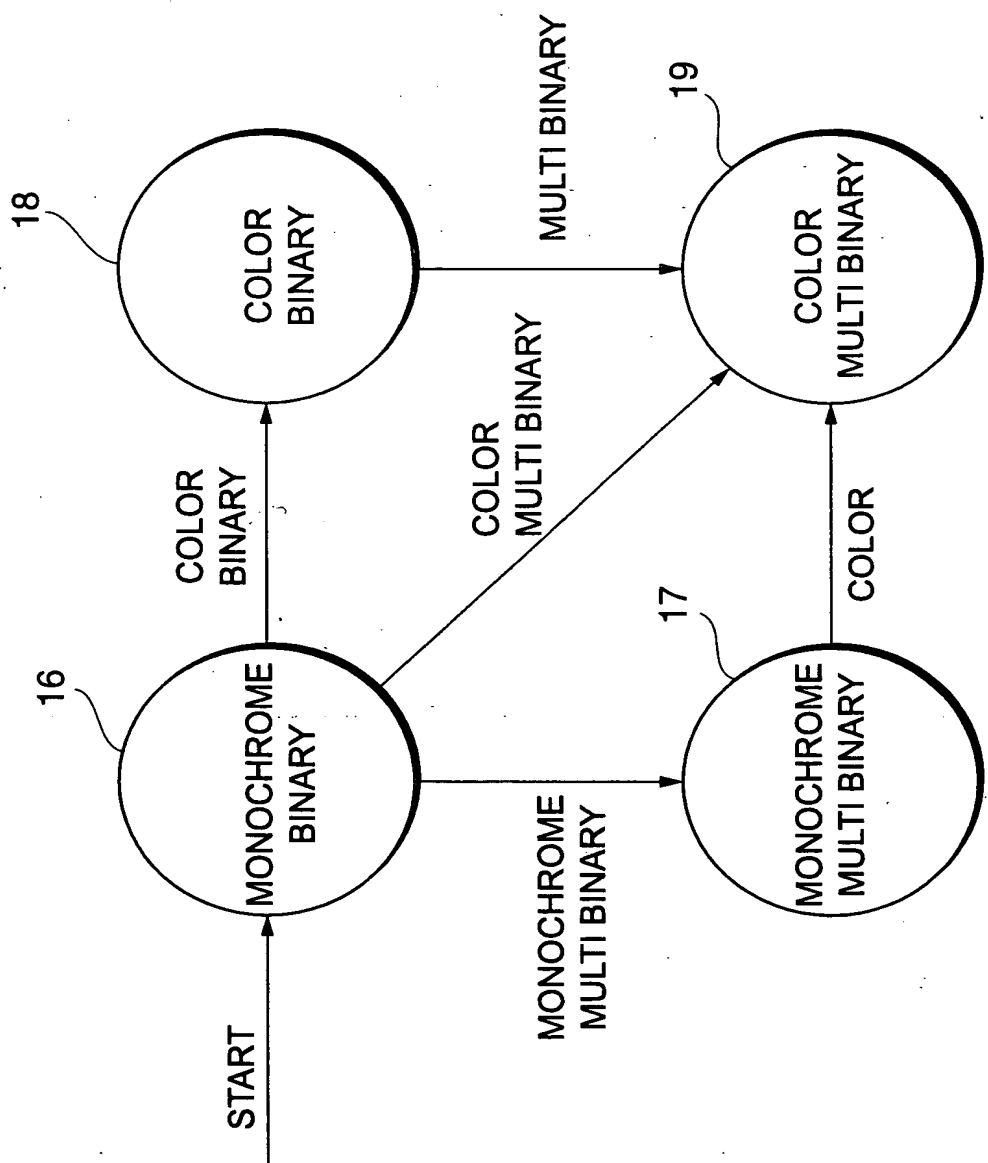


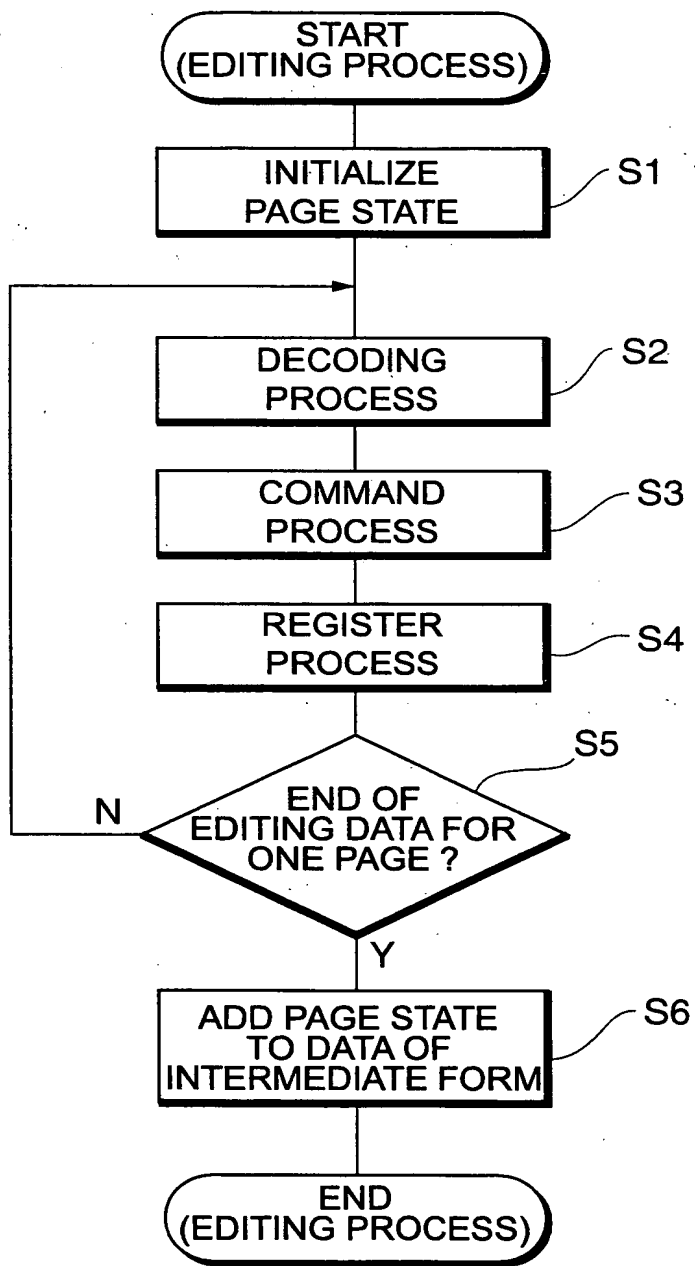
Fig.6

Fig.7

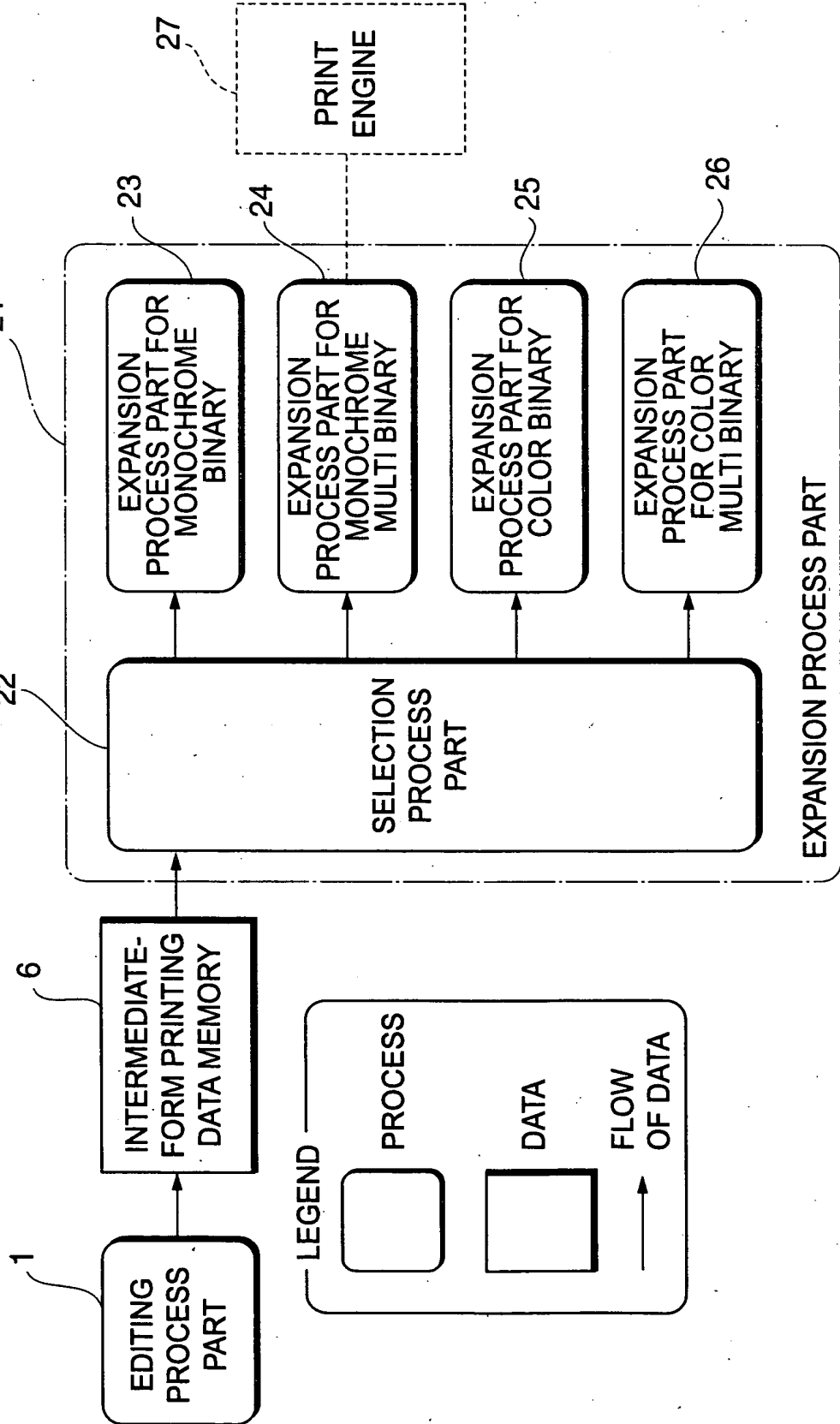


Fig. 8

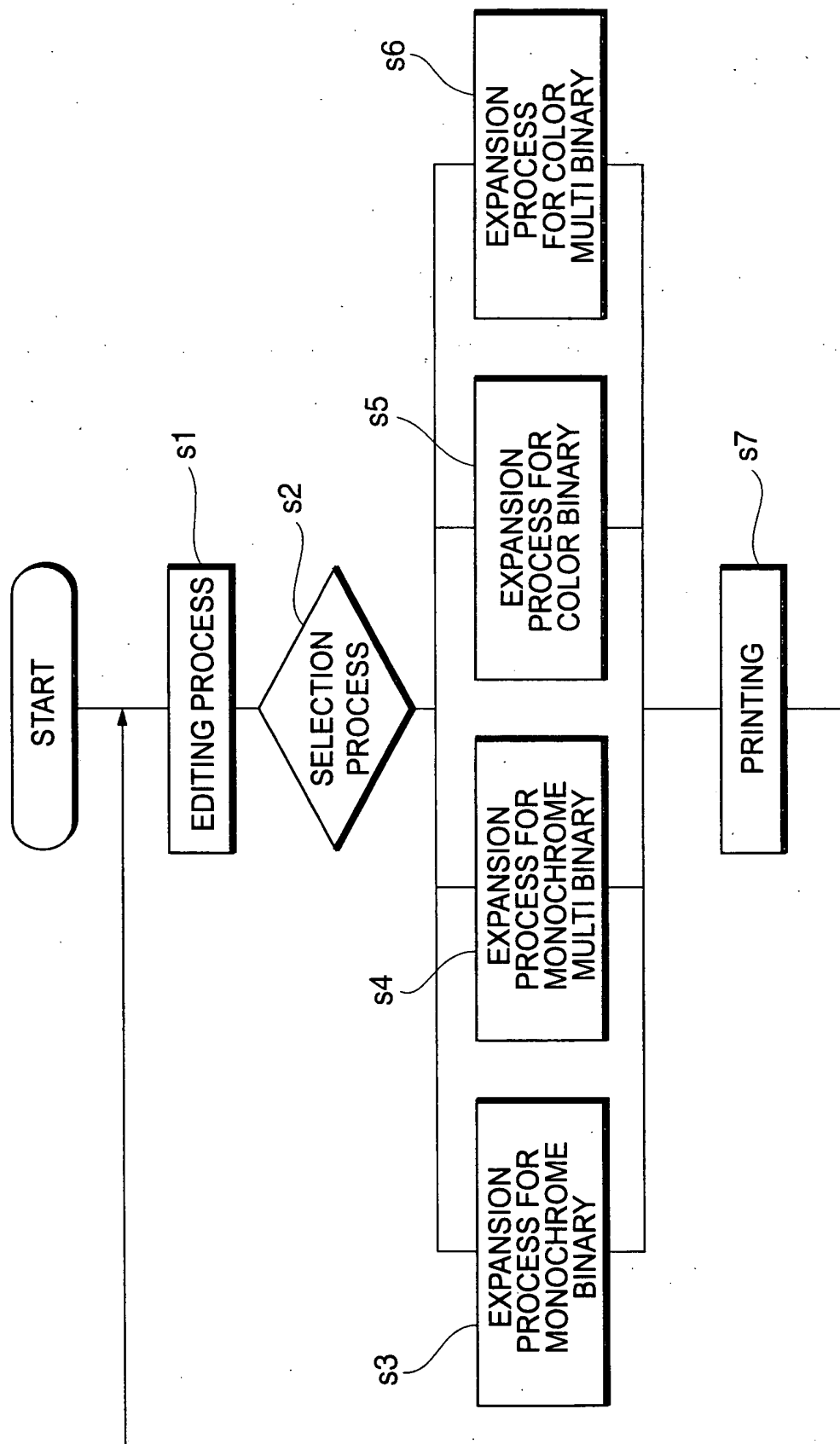


Fig.9

ORDER	PAGE	SHEET OF PAPER	FRONT/REVERSE
1	2	1ST	REVERSE
2	4	2ND	REVERSE
3	1	1ST	FRONT
4	6	3RD	REVERSE
5	3	2ND	FRONT
6	8	4TH	REVERSE
7	5	3RD	FRONT

DIAGRAM FOR EXPLAINING PRINTING ON BOTH SIDES

Fig.10

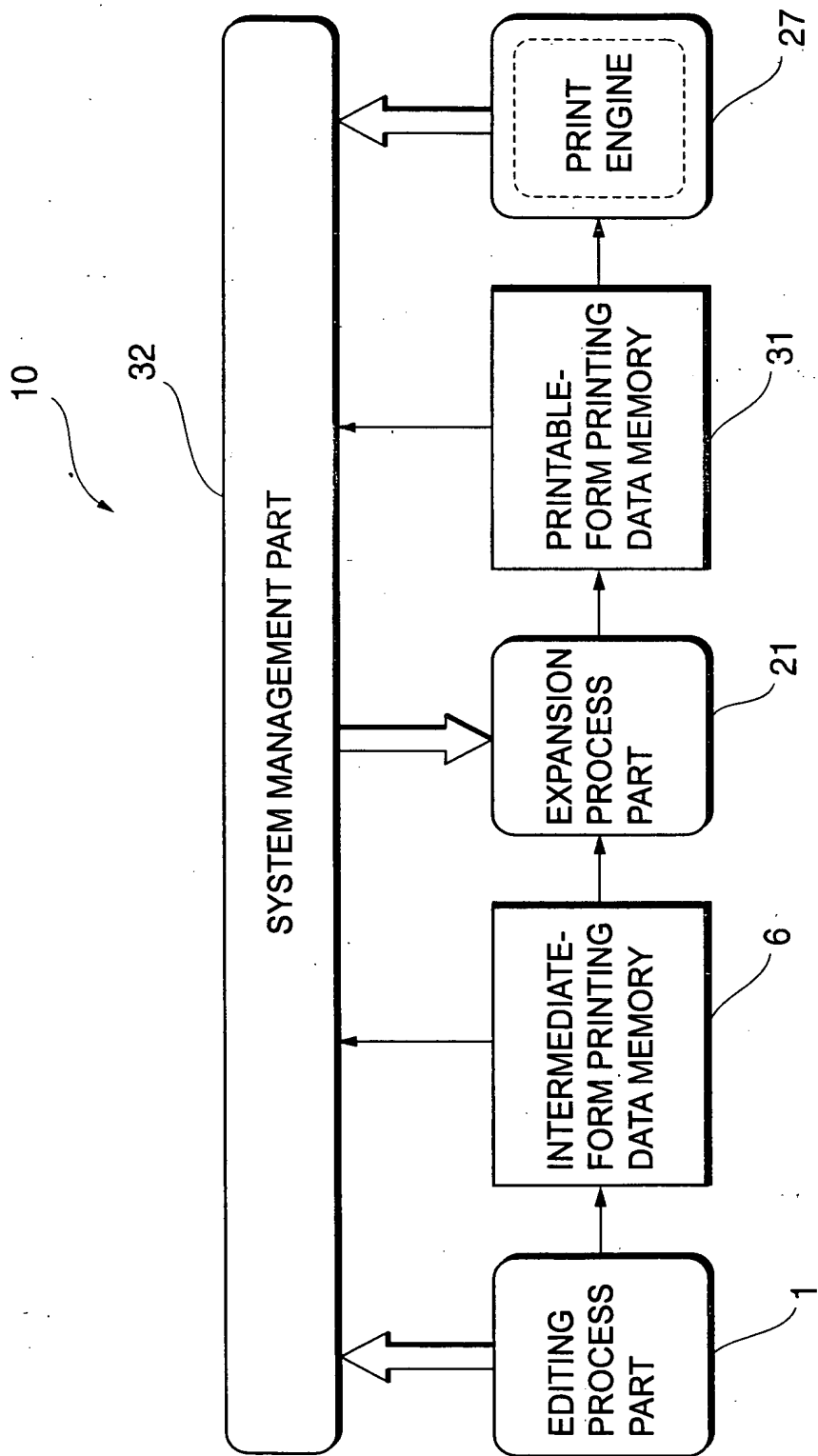


Fig. 11

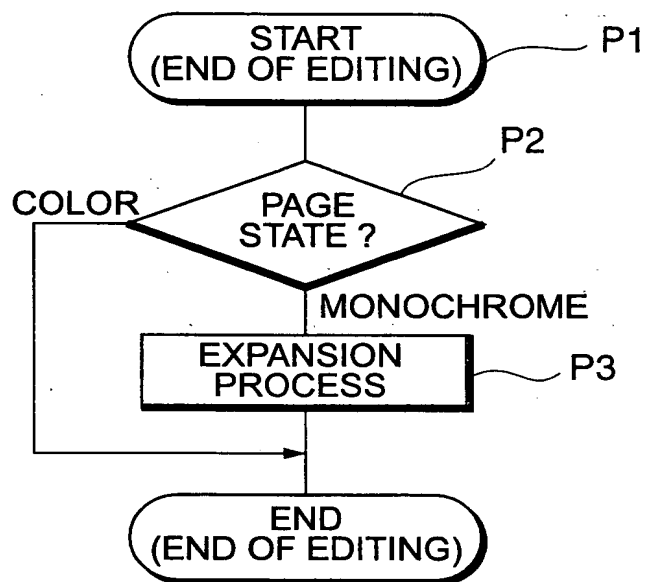


Fig. 12

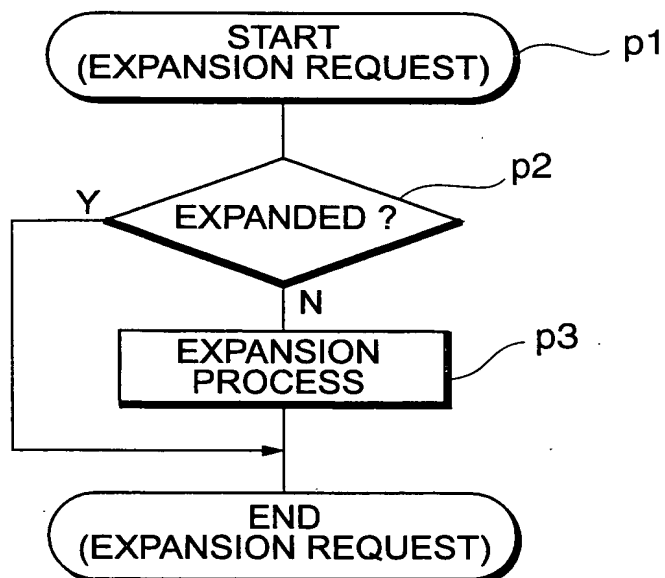
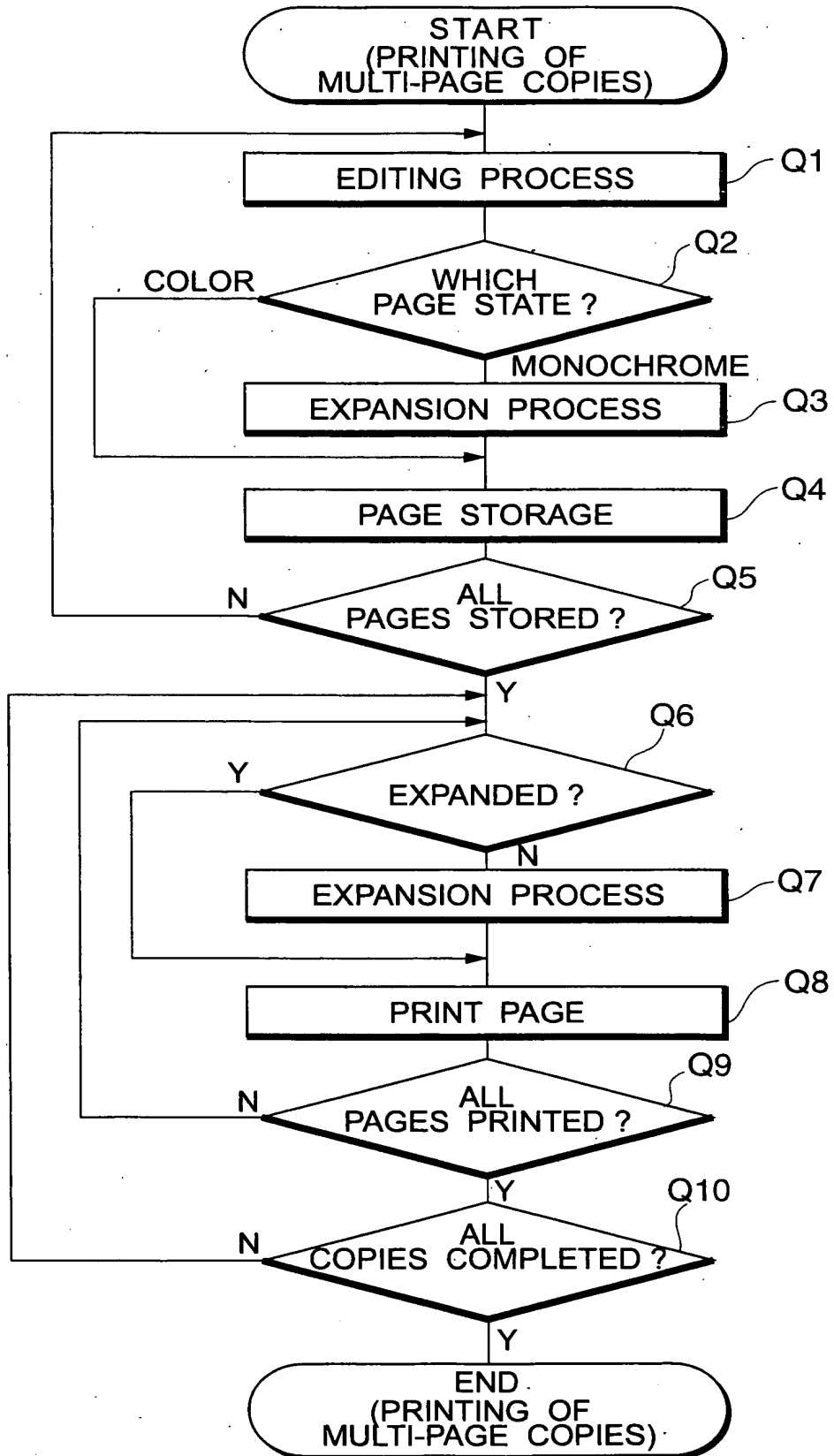


Fig. 13

The diagram illustrates the timing sequence for printing a monochrome page followed by a color page. The horizontal axis represents time, with key points T0, T1, T2, and T3 marked. A vertical line at T1 represents the 'PRINTING PATH LENGTH'. The sequence of events is as follows:

- T0:** The start of the 'PRINTING AT MONOCHROME PRINTING SPEED (WAITING FOR EJECTION IS REQUIRED)' phase. This phase is represented by a solid line.
- T1:** The end of the monochrome printing phase and the start of the 'SUBSEQUENT COLOR PAGE' phase. This point is marked by a vertical dashed line labeled 'PRINTING PATH LENGTH'.
- T2:** The start of the 'PRINTING AT COLOR PRINTING SPEED' phase. This phase is represented by a solid line.
- T3:** The end of the color printing phase, marked by a vertical dashed line.

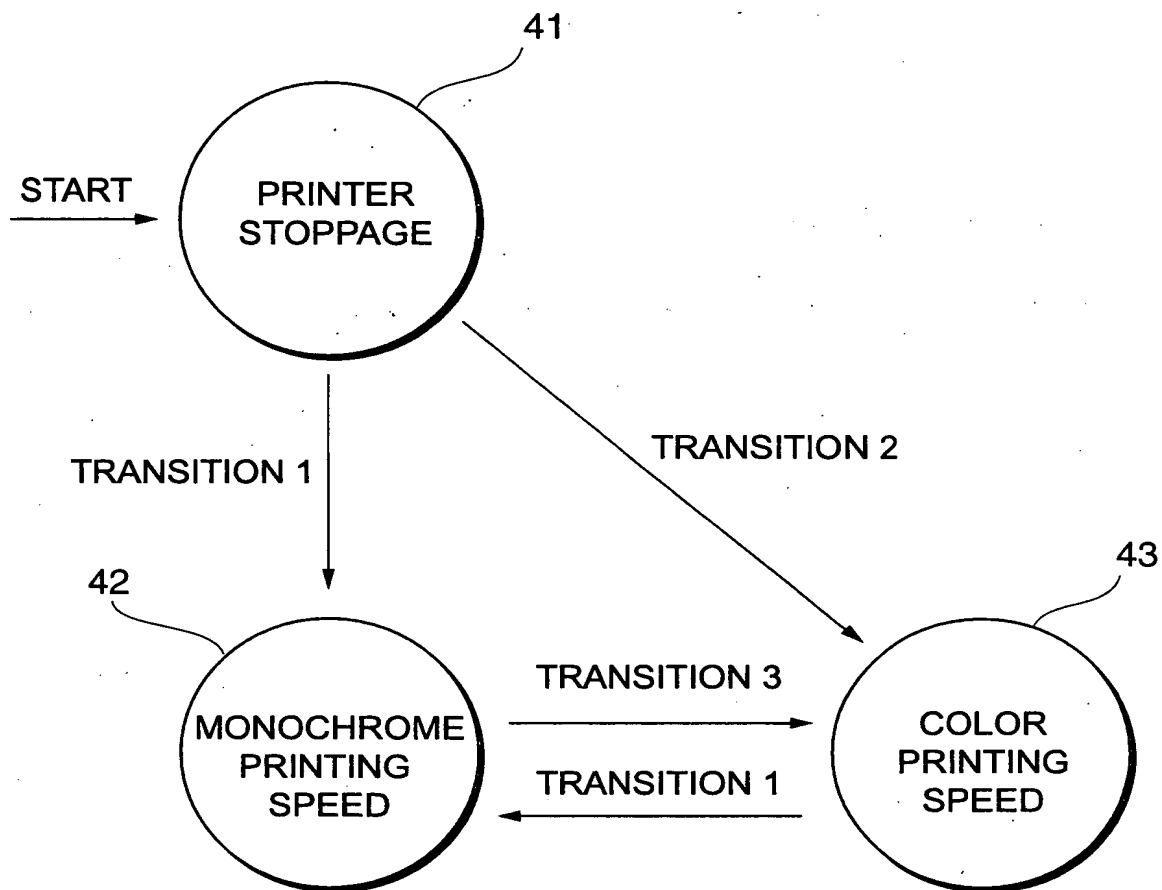
The diagram shows that the color printing phase begins immediately after the monochrome printing phase ends at T1. The time interval between T0 and T1 is the duration of the monochrome printing phase, and the time interval between T1 and T3 is the duration of the color printing phase.

PRINTING AT COLOR PRINTING SPEED
(CONTINUOUS PRINTING IS POSSIBLE)

T2 T0

T1

SUBSEQUENT COLOR PAGE	MONOCHROME PAGE
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Fig.15

TRANSITION 1 PAGE STATE THIS TIME IS MONOCHROME
AND NEXT PAGE STATE IS MONOCHROME

TRANSITION 2 PAGE STATE THIS TIME IS COLOR
AND NEXT PAGE STATE IS COLOR

TRANSITION 3 PAGE STATE THIS TIME IS COLOR

Fig.16

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CURRENT PRINTING SPEED	PAGE STATE THIS TIME	NEXT PAGE STATE	PRINTING SPEED THIS TIME	TRANSITION MODE
PRINTER STOPPAGE ₄₁	MONOCHROME	(1) MONOCHROME	MONOCHROME	1
		(2) COLOR	COLOR	2
	COLOR	(3) MONOCHROME	COLOR	2
		(4) COLOR	COLOR	2
MONOCHROME ₄₂	MONOCHROME	(5) MONOCHROME	MONOCHROME	NO TRANSITION
		(6) COLOR	MONOCHROME	NO TRANSITION
	COLOR	(7) MONOCHROME	COLOR	3
		(8) COLOR	COLOR	3
COLOR 43	MONOCHROME	(9) MONOCHROME	MONOCHROME	1
		(10) COLOR	COLOR	NO TRANSITION
	COLOR	(11) MONOCHROME	COLOR	NO TRANSITION
		(12) COLOR	COLOR	NO TRANSITION

DIAGRAM FOR EXPLAINING DECISION ON PRINTING SPEED

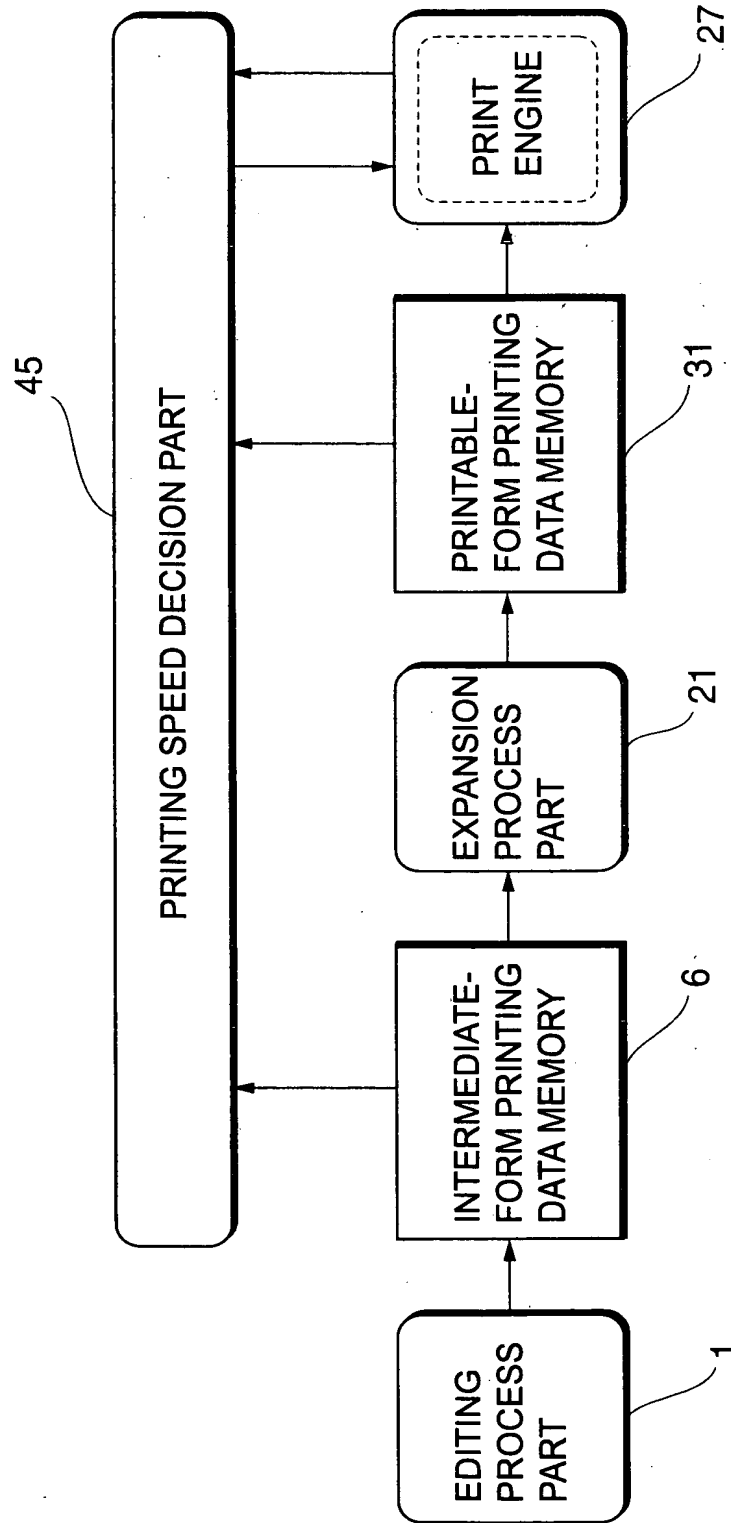
Fig.17

Fig. 18